LP1K0610BDTQ

contactor TeSys LP1-K - 3P - AC-3 440V 6 A - coil 24 V DC





Main

Main	
Range of product	TeSys K
Range	TeSys
Product or component type	Contactor
Device short name	LP1K
Contactor application	Motor control
Utilisation category	AC-3 AC-4
Control circuit type	DC
Coil type	DC standard
Poles description	3P
Pole contact composition	3 NO
[le] rated operational current	6 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	1.5 kW at 220230 V AC 50/60 Hz AC-3 2.2 kW at 380415 V AC 50/60 Hz AC-3 3 kW at 660/690 V AC 50/60 Hz AC-3 1.5 kW at 400 V AC 50/60 Hz AC-4 3 kW at 440/500 V AC 50/60 Hz AC-3
Motor power hp	1.5 hp at 200/208 V AC 60 Hz conforming to CSA 1.5 hp at 200/208 V AC 60 Hz conforming to UL 1.5 hp at 230/240 V AC 60 Hz conforming to CSA 1.5 hp at 230/240 V AC 60 Hz conforming to UL 3 hp at 460/480 V AC 60 Hz conforming to CSA 3 hp at 460/480 V AC 60 Hz conforming to UL 3 hp at 575/600 V AC 60 Hz conforming to CSA 3 hp at 575/600 V AC 60 Hz conforming to UL
Auxiliary contact composition	1 NO
[Uc] control circuit voltage	24 V DC
Connections - terminals	Power circuit: screw clamp terminal 1 cable 1.5 mm² - cable stiffness: solid Power circuit: screw clamp terminal 2 cable 4 mm² - cable stiffness: solid Power circuit: screw clamp terminal 1 cable 0.75 mm² - cable stiffness: flexible Power circuit: screw clamp terminal 2 cable 4 mm² - cable stiffness: flexible Power circuit: screw clamp terminal 1 cable 0.34 mm² - cable stiffness: flexible Power circuit: screw clamp terminal 1 cable 1.5 mm² - cable stiffness: flexible Power circuit: screw clamp terminal 1 cable 1.5 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 2.5 mm² - cable stiffness: solid Control circuit: screw clamp terminal 1 cable 1.5 mm² - cable stiffness: solid Control circuit: screw clamp terminal 2 cable 4 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.75 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.34 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.34 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.5 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 2.5 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.75 mm² - cable stiffness: flexible Control circuit: screw clamp terminal 1 cable 0.75 mm² - cable stiffness: solid Power circuit: spring terminal 1 cable 0.75 mm² - cable stiffness: solid Power circuit: spring terminal 1 cable 1.5 mm² -

cable stiffness: solid

Power circuit: spring terminal 1 cable 0.75 mm² -

cable stiffness: flexible

Power circuit: spring terminal 1 cable 1.5 mm² -

cable stiffness: flexible

Control circuit: spring terminal 1 cable 0.75 mm² cable stiffness: solid

Control circuit: spring terminal 1 cable 1.5 mm² -

cable stiffness: solid

Control circuit: spring terminal 1 cable 0.75 mm² cable stiffness: flexible

Control circuit: spring terminal 1 cable 1.5 mm² cable stiffness: flexible

Power circuit: Faston connectors 2 - width: 2.8

mm - cable stiffness: clip

Power circuit: Faston connectors 1 - width: 6.35

mm - cable stiffness: clip

Control circuit: Faston connectors 2 - width: 2.8

mm - cable stiffness: clip

Control circuit: Faston connectors 1 - width: 6.35

mm - cable stiffness: clip

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	>= 0.10 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational
[Ui] rated insulation voltage	690 V for control circuit conforming to BS 5424 690 V for control circuit conforming to IEC 60947 690 V for power circuit conforming to BS 5424 690 V for power circuit conforming to IEC 60947 690 V for power circuit conforming to NF C 20-040 750 V for control circuit conforming to VDE 0110 group C 750 V for power circuit conforming to VDE 0110 group C 600 V for control circuit conforming to CSA C22.2 No 14 600 V for power circuit certifications UL 508 conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Flame retardance	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94
Tightening torque	Power circuit: 0.81.3 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 0.81.3 N.m - on screw clamp terminal - with screwdriver Philips No 2
[Ue] rated operational voltage	<= 690 V AC <= 400 Hz for power circuit
[lth] conventional free air thermal current	10 A at <= 50 °C for control circuit 20 A at <= 50 °C for power circuit
Irms rated making capacity	110 A at 690 V AC for control circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to NF C 63-110
Rated breaking capacity	110 A at 220230 V for power circuit conforming to IEC 60947 110 A at 220230 V for power circuit conforming to NF C 63-110 110 A at 380400 V for power circuit conforming to IEC 60947 110 A at 380400 V for power circuit conforming to NF C 63-110 110 A at 415 V for power circuit conforming to IEC 60947 110 A at 415 V for power circuit conforming to NF C 63-110 110 A at 440 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to NF C 63-110 70 A at 660690 V for power circuit conforming to NF C 63-110 80 A at 500 V for power circuit conforming to IEC 60947 80 A at 500 V for power circuit conforming to NF C 63-110
Permissible short-time rating	20 A (<= 50 °C) - short time current duration: >= 15 min - for power circuit 40 A (<= 50 °C) - short time current duration: 3 min - for power circuit 45 A (<= 50 °C) - short time current duration: 1 min - for power circuit 60 A (<= 50 °C) - short time current duration: 30 s - for power circuit 80 A (<= 50 °C) - short time current duration: 10 s - for power circuit 85 A (<= 50 °C) - short time current duration: 5 s - for power circuit 90 A (<= 50 °C) - short time current duration: 1 s - for power circuit
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at <= 440 V for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit



3 W at 20 °C
3 W at 20 °C
10 ms coil de-energisation and NO opening 15 ms coil de-energisation and NC opening 2535 ms coil energisation and NC opening 3040 ms between energisation of coil and closing of NO contact
B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
10000000 cycles
3600 cyc/h
5 mA for control circuit
17 V for control circuit
> 10 MOhm for control circuit
120 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit 15 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit 55 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit
58 mm
45 mm
57 mm
0.225 kg

Environment

standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
product certifications	CSA GOST UL
IP degree of protection	IP2x conforming to VDE 0106
protective treatment	TC conforming to IEC 60068
ambient air temperature for operation	-2550 °C
ambient air temperature for storage	-5080 °C
operating altitude	2000 m without derating
fire resistance	850 °C conforming to IEC 60695-2-1
shock resistance	10 gn contactor closed 6 gn contactor opened
vibration resistance	2 gn 5300 Hz contactor opened 4 gn 5300 Hz contactor closed
heat dissipation	3 W for control circuit

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0633 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

